

FIGURE 1

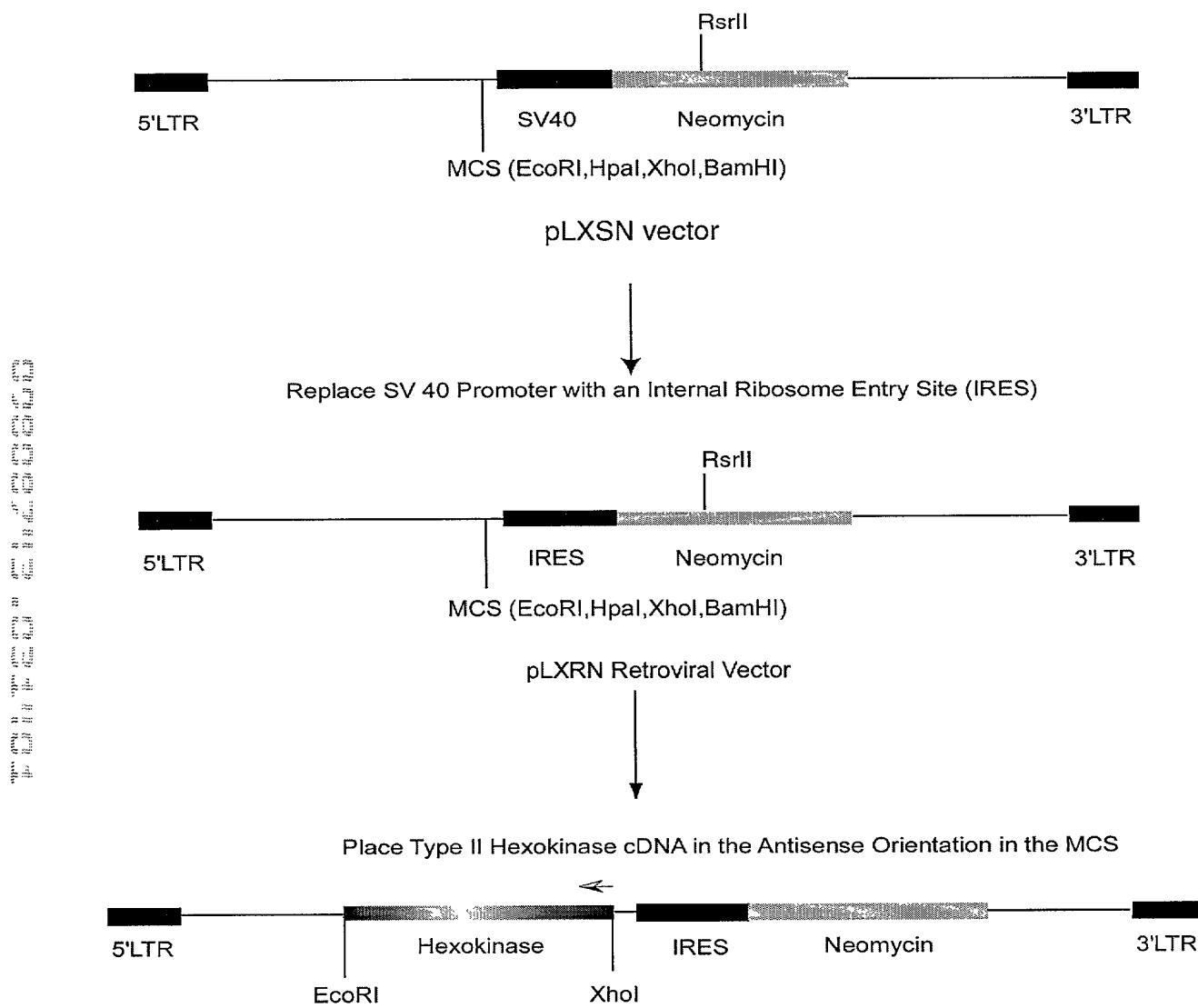


FIGURE 2



Legend:

— protein

Sequence:

1 MIASHMIACI FTELNQNQVQ KVQDFLYHMR LSDETLLEIS RRFRKEMEKG LGATTHPTAA
61 VKMLPTFVRS TPDCTEHGEF LALDLGGTNF RVLVRVTDN GLQRVEMENQ IYAILEDIMR
121 GSCTQLFIDHI AECLANFMKD LQIKEKKLPL GFTFSFPCHQ TKLDESFLVS WTKGFKSSCV
181 EGRIIVVUDLIR KVIQRRGDFD IDIVAVVNDT VGTMMTCGYD DQNCEIGLIV GTGSNACYME
241 EMRHIDMVEG DEGRMCINME WGAFCDDGTL NDIRTEFDRE IDMGSLNPGK QLFEKMICM
301 YMGELEVRLIL VKMAKARELLF QGKLSPELLT TGSFETKDV S DIEEDKDGIE KAYQILMRLG
361 LNPLQEDCVA THRICQIVST RSASLCATL RAVLWRIKEN KGEERLRSTI GVDGSVYKKH
421 PHFAKRHLKA VRRLLVPICIDV RFLRSEDGSG KGAAMVTAVA YRLADQHRRR QKTLLESLKS
481 HEQLLLEVKR MKVEMEQGLS KETHAVAPVK MLPTYVCATP DGTEKGDFLA LDLLGGTNFRV
541 LLVRVRNGKR RGVEMHNKIY SIPQEVHMG CEEFLDHIVQ CIADFLEYMG MKCVSLPLCF
601 TFSFPCQQNS LDQSILLKWT KGFKASGCEG EDVVTLLKEA IHRREEFDLD VVAVVNDTVG
661 TMMTCGYEDP HCEVGLIVGT GSNACYMEEM RNVELVDGEE GRMCVNMEWG AFGDNGCLDD
721 LRTVFDVAVD ELSLNPKQQR FEKMISGMYL GEIVRNILID FTKRGLLFRG RISERLKTRG
781 ISETKFLSQI ESDCLALLQV RAILRHLGLE STCDDSIIVK EVCTVVARRA AQLCGAGMRA
841 VVDKIRENRG LDNPKVTVGV DGTLYKLPHF FAKVMHETVR DLAPKCDVSF LESEDGSGKG
901 AALITAVACR IREAGGR

FIGURE 3

200 kDa
116 kDa
97 kDa

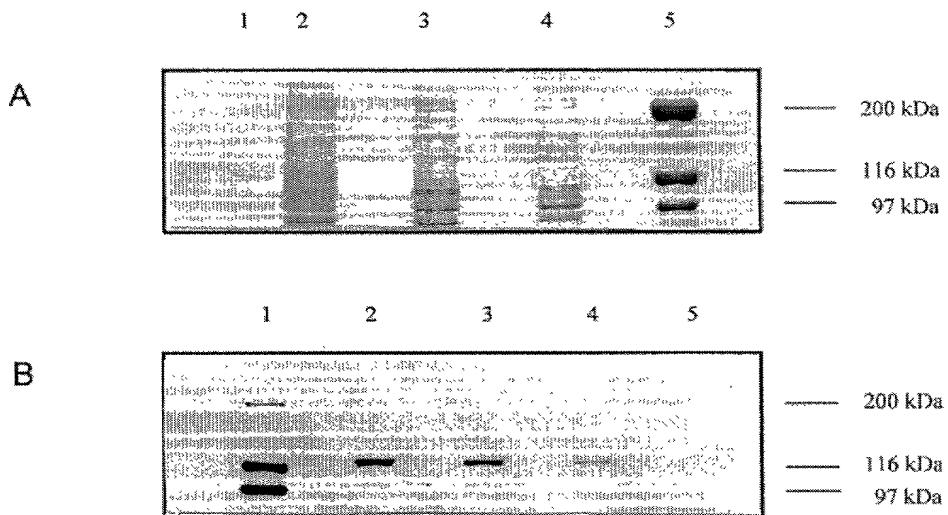


FIGURE 4

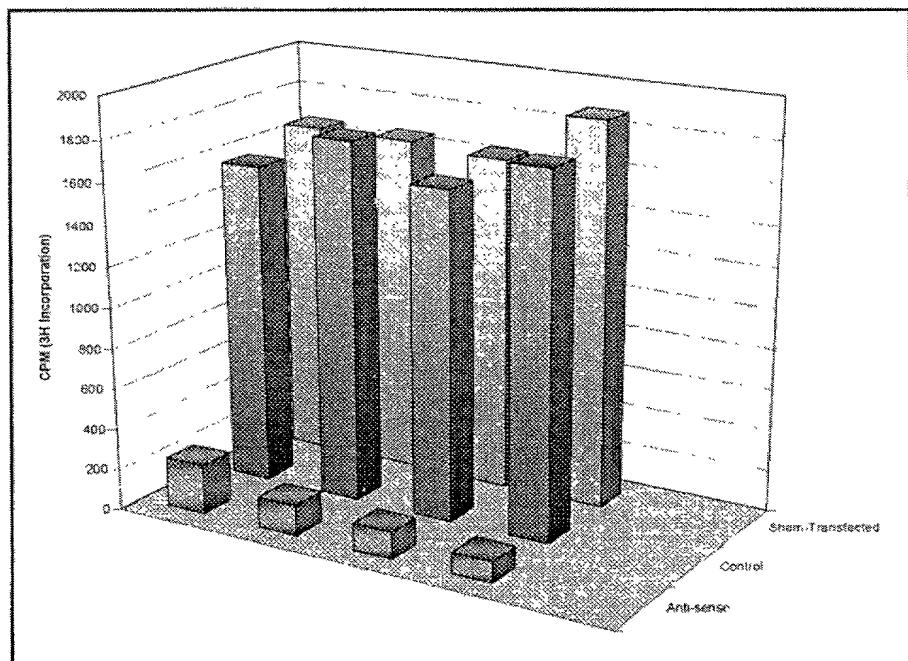


FIGURE 5

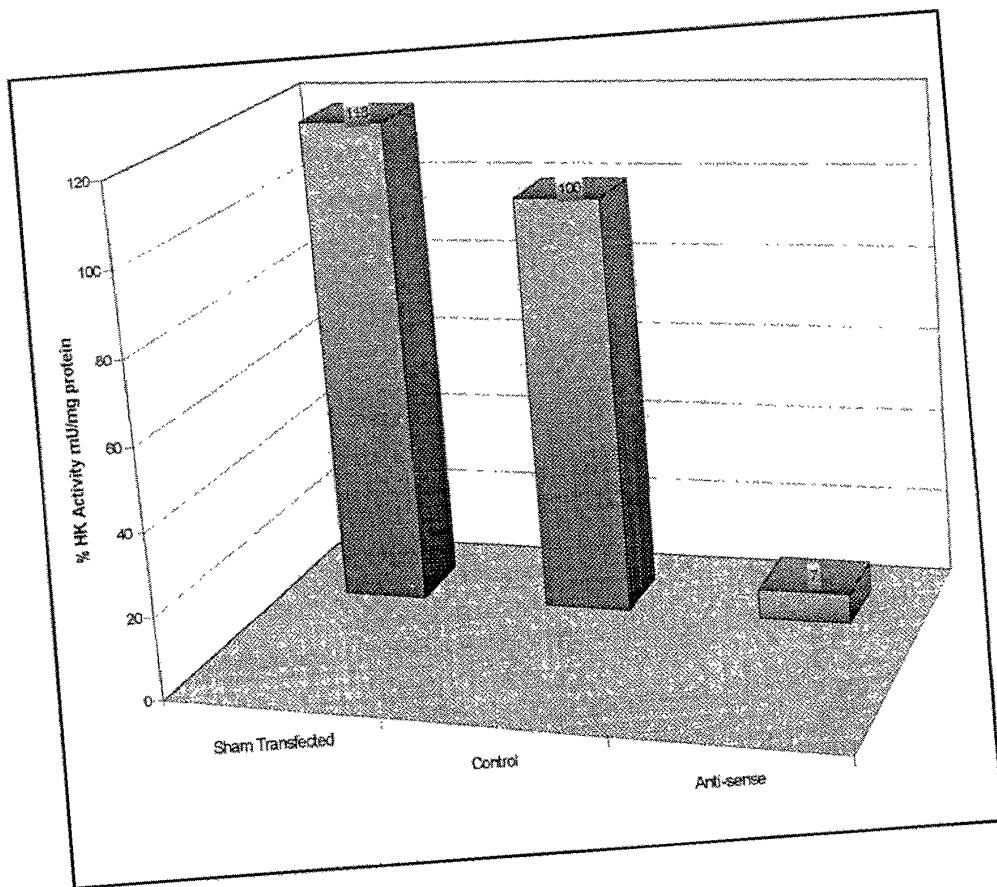


FIGURE 6

AF027179 Rattus norvegicus mutant type II hexokinase mRNA, complete cds

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aggcggttcc ggaaggagat ggagaaaggg cttaggagcta ccacgcaccc tacagcagct 181
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acaaaactgg atgagagttt tttggctctg tgactaagg gttcaagtc cagtgccgtg 541
gaaggcagag atgtggtgg a cctgatccgg aagggttatcc agcgcagagg ggactttgac 601
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gatcagaact gcgagattgg tctcatgtg ggcactggca gcaacgcctg ctacatggag 721
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tacatggggg agctggtcag gctcatctg gtgaagatgg ccaaggcaga gctgttgc 961
caagggaaac tcagcccaga actccttacc actggctcc t c g a g a c c a a a g a t g t c t g 1021
gatattgaag aggataagga t g g a a t c g a g a a g g c t a c t c a t c g a t g a t g t c a c g 1081
ctgaatccat tgaggagga ttgtgtggcc acgcaccgaa tctgccagat t g t g t c c a c g 1141
cgctcgccca g t c t g t g c g c a g c c a c c t g g c g c g g t g c t g g c g a a t c a a a g a g a a c 1201
a a g g g c g a g g a g c a c t t c g c t c a c c a t g t g c a g t g c a t g t c a c 1261
ccccattttt ccaagcgtct ccataaggca gtgaggaggg t g g t g c c c g a c t g t g a t g t c 1321
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aagggattca aggcatctgg ctgcgagggt gaggatgtgg t c a c c t t g c t g a a g a g c g 1921
attcaccggc gagaggagtt tgacctggat gtgggtgccc t g g t g a a t g a c a c g t t g g 1981
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ttgcggaccg t g t t t g a t g t g t c t g a c c t g g a a c a a c a g a g g a g 2221
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cgtgccatcc tgcgccaccc agggctggag a g c a c g t g c g a t g a c a g c a t c t g a a g 2461
gaggtgtgca ctgtgggtgc cggcgcgc g c a c a g c t t g t g c g c a g g a g a g g a g 2521
gtagtggaca agataagaga g a a c c g t g g g t g a c a a c c t g a a g t g a c a g t g a c 2581
gacgggactc tgataagct tcatttcac tttgccaagg t c a t g c a t g a g a c g t g a a g 2641
gatctggctc c g a a a t g t g a c g t g c t t c t g g a a t c c g a g g a c c g a g 2701
g c a g c t c t c a t c a c t g c c g t g g c c a c c a t c t c a a g a g g g a g 2761

FIGURE 7A

AF113968 Cloning vector pLXRN, complete sequence

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FIGURE 7B

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gataataccg cgccacatacg cagaacttta aaagtgcac tcattggaaa acgttcttcg

FIGURE 7C

6061 gggcgaaaac tctcaaggat cttaccgctg ttgagatcca gttcgatgtta acccaactcg
6121 gcacccaaact gatcttcagc atctttact ttaccaggcg tttctgggtg agcaaaaaca
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6301 atatttgaat gtattttagaa aaataaacaa ataggggttc cgcgcacatt tccccgaaaa
6361 gtgccacctg acgtctaaga aaccattatt atcatgacat taacctataa aaataggcgt
6421 atcacgaggc ccttcgtct tcaa

FIGURE 8A

Accession Number NM_012734 for Rattus norvegicus Hexokinase 1 (Hk1), mRNA

cgccgatctg ccgctggagg accactgctc accagggcta ctgaggagcc actggcccca 61
cacctgctt tccgcattcc ccacgcgtcg catgatgcgc ggcgaactac tggcctatata 121
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taaagccatt aagaagcggag gggactatga tgctaaccatt gtcgcgtgg tgaatgacac 721
agttagggacc atgatgaccc gcggttatga tgaccaacag tgtgaagtcg gcctgatcat 781
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cgacgagggg aggatgtgtt ttaacacggc atggggagcc tttggggatg atgggtccct 901
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cgaatattct ctaaaactctg ggaaacaaag gtttggaaaatgatcagtg ggtgtactt 2341
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tgagagtgc cggtagcgc tgctccaggc gcccgcattt cttcagcgc tgggtttgaa 2521
cagcactgt gacccagatc tcctggtaa gaccgtgtt ggggtgggtt ccaagaggcc 2581
ggctcagctg tgggtggccg gcatggccgc cgtgggtggaa aagatcagag agaacagagg 2641
ccttagaccat ctgaatgtaa ctgtggagtt ggtatgggacg ctctacaaac ttcatccaca 2701
cttctccaga atcatgcacc aaactgtgaa ggaactgtca cccaaagtgtt ccgtgtccct 2761
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gctcagagga gacccttcga tcgcctaaaa gccaggatcc tcccaagcccc cagcccgcca 2881
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cgagaccca cgtagaatac caccctggcgc gcgtgtgcgt ttgatctgtat ctctcgcctg 3061
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FIGURE 8B

ccatgagtga acgttagcggc accccgggtgc gtctactgca gatgtccagc taggaaagag 3181
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